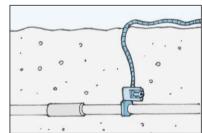


1. Try to ground to a buried metal object like an underground pipe. That will save you a lot of digging or driving in frozen ground. However, the metal object has to be buried at least 2½ feet below the surface; cannot contain, or transfer, gasoline or other flammable liquids; must be all non-coated metal; and you must test its conductivity before you use it.

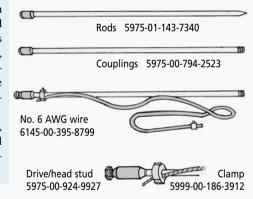


IF YOU PO HOOK UP TO A
BURIED METAL OBJECT,
MAKE SURE YOU CONNECT
THE GROUNDING ELECTRODE
CONDUCTOR TO THE OBJECT
WITH A SOLID CONNECTION.
A WRAP-AROUND OR TIE-ITON WON'T DO!

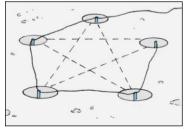


2. If no buried object can be found, use your ground rods. Drive them in as far as you can. If you use the 8-ft, 3-section rod, NSN 5975-00-878-3791, you can use slide hammer, NSN 5120-01-013-1676, to drive it in. If you're using the 6-ft, non-sectional rod, you'll have to use a sledge ham-

mer to do the job.



If you cannot get the rods deep enough–below the frost line and to the water table–install a cluster of shorter rods. Depending on the number of rods you have, you should install them around the perimeter of your shelter or generator in a triangle pattern. If you cannot install around the perimeter, use a star-pattern. The distance between rods should be 2-4 rod lengths.



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3. Another option is to bury the rods horizontally. Dig a trench at least 2½ feet deep. Install the ground rod horizontally or put at least 10 feet of copper 2 AWG bare wire in the trench.

Trench at least 2½ feet deep?



4. It is very important in cold weather to bond equipment and shelters located within arms length of each other to eliminate any hazardous voltage that may develop between them. If the equipment is not bonded, that voltage can use you as the conductor if you touch both pieces of equipment at the same time.

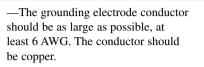




SHELTER BONDING
SHOULD BE DONE BY EITHER
RUNNING A BONDING STRAP OF
AT LEAST 6 AWG BETWEEN THE
TWO SHELTERS' GROUNDING
TERMINALS OR BETWEEN THE
TWO GROUND RODS PROVIDED
FOR EACH SHELTER.

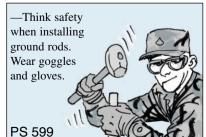
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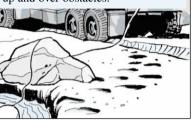


—Minimize any twists, loops or sharp bends and remove all knots from the conductor.





—Run the conductor as straight and as short as possible in a downward direction. Do not run the conductor up and over obstacles.



—Make sure the bonding surfaces are free of paint, corrosion, grease or dirt.

—Never twist or tie a ground wire around a ground rod. Use the bolt or clamp. If there is no bolt, then 24 tightly wound turns of stripped telephone wire or other bare wire should hold the strap in place. This is a temporary measure only. Get a clamp when you can.

